

PTO/SB/08A (04-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Page 1 of 6

Complete If Known

Application Number	10/633,015
Filing Date	July 31, 2003
First Named Inventor	PAVLOVSKAIA, ELENA, et. al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-002920US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	1	3,407,500	10-29-1968	Kesling	
	2	3,600,808	08-24-1971	Reeve	
	3	3,660,900	05-09-1972	Andrews	
	4	3,683,502	08-15-1972	Wallshein	
	5	3,860,803	01-14-1975	Levine	
	6	3,861,044	01-21-1975	Swinson, Jr.	
	7	3,922,786	12-02-1975	Lavin	
	8	3,950,851	04-20-1976	Bergersen	
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	11	4,324,547	04-13-1982	Arcan et al.	
	12	4,500,294	02-19-1985	Lewis	
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Examiner
Signature

Todd F. Manahan

Date
Considered

1-11-05

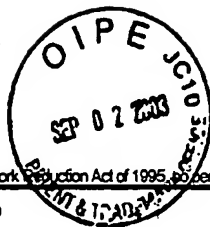
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		Number Kind Code ² (if known)			
	35	5,055,039	10-08-1991	Abatte et al.	
	36	5,059,118	08-23-1994	Breads et al.	
	37	5,100,316	03-31-1992	Wildman	
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	68	5,725,378	03-10-1998	Wang	

Examiner
SignatureTodd E. Manahan
Primary ExaminerDate
Considered

1-11-05

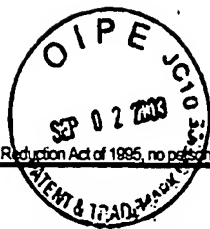
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		Number	Kind Code ² (if known)			
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	83	FR	2369828		06-02-1978			<input type="checkbox"/>
	84	WO	98/58596		12-30-1998			<input type="checkbox"/>
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	86	WO	94/10935		05-26-1994			<input type="checkbox"/>
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Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	1-11-04
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NON PATENT LITERATURE DOCUMENTS

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/	87	Andrews, "The Six Keys to Optimal Occlusion" Straight Wire, Chapter 3 pp13-24	
/	88	Biostar Operation & Training Manual. Great Lakes Orthodontics, Ltd. 199 Fire Tower Drive, Tonawanda, New York. 14150-5890. 20 pages total	
/	89	Cardinal Industrial Finishes, Powder Coatings information posted at http://www.cardinalpaint.com on 08/25/00, 2 pages total.	
/	90	Chiappone, "Constructing the gnathologic setup and positioner" J. Clin. Orthod. (1980) 14:121-133.	
/	91	Cottingham, "Gnathologic clear plastic positioner" Am. J. Orthod. (1969) 55:23-31.	
/	92	Cureton, "Correcting malaligned mandibular incisors with removable retainers" J. Clin. Orthod. (1996) 30:390-395.	
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/	94	Doyle, "Digital Dentistry" Computer Graphics World (October 2000) pp. 50-52, 54.	
/	95	Elsasser, "Some observations on the history and uses of the Kesling positioner" Am. J. Orthod. (1950) 36:368-374.	
/	96	Kamada et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" J. Nihon University School of Dentistry (1984) 26(1):11-29.	
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/	98	Kesling, "Coordinating the predetermined pattern and tooth positioner with conventional treatment" Am. J. Orthod. Oral. Surg. (1946) 32:285-293.	
/	99	Kesling, "The philosophy of the tooth positioning appliance" Am. J. Orthod. Oral. Surg. (1945) 31(6):297-304.	
/	100	Kleemann et al., "The speed positioner" J. Clin. Orthod. (1996) 30:673-680.	

Examiner
SignatureTodd E. Manahan
Primary ExaminerDate
Considered

1-11-04

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<i>[Signature]</i>	101	Kunii et al., "Articulation Simulation for an Intelligent Dental Care System" Displays (1994) 15:181-188.	
	102	Kuroda et al., "Three-dimensional dental cast analyzing system using laser scanning" Am. J. Orthod. Dentofac. Orthop. (1996) 110:365-369.	
	103	Nahoum et al., "The vacuum formed dental contour appliance" The New York State Dental Journal (1964) 30(9):385-390.	
	104	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-I. Approach to the proposal of D.P. and transparent silicone rubber" (1980) 452:61-74.	
	105	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-II. Practical application and construction of D.P." (1980) 454:107-130.	
	106	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-III. Case reports of reversed occlusion" 1980) 457:146-164.	
	107	Nippon Dental Review "New orthodontic device-dynamic positioner (D.P.)-Case reports of reversed occlusion" (1980) 458:112-129.	
	108	Nishiyama et al., "A new construction of tooth repositioner by LTV vinyl silicone rubber" J. Nihon University School of Dentistry (1977) 19(2):93-102.	
	109	Proffit et al, "Contemporary Orthodontics" Second Edition, Chapter 15, pp 470-533	
	110	Raintree Essix™ & ARS Materials, Inc., Raintree Essix™ Technical Magazine Table of Contents and Essix™ Applications, http://www.essix.com/magazine/default.html (Aug. 13, 1997) 7 pages total.	
	111	Redmond et al., "Clinical Implications of Digital Orthodontics," Am J. Orthodont. Dentofacial Orthopedics (2000) 117(2)	
	112	Richmond et al., "The development of the PAR Index (Peer Assessment Rating): reliability and validity" European Journal of Orthodontics (1992) 14:125-139.	
	113	Schroeder et al., Eds. The Visual Toolkit, Prentice Hall PTR, New Jersey (1998) Chapters 6, 8, and 9 (pages 153-210, 309-354, and 355-428, respectively).	
<i>[Signature]</i>	114	Shilliday, "Minimizing finishing problems with the mini-positioner" Am. J. Orthod. (1971) 59:596-599.	

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Signature

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<i>[Signature]</i>	115	Warunek et al., "Clinical use of silicone elastomer appliances" JCO (1989) XXIII(10):694-700.	
<i>[Signature]</i>	116	Warunek et al., "Physical and mechanical properties of elastomers in orthodontic positioners" Am. J. Orthod. Dentofac. Orthop. (1989) 95:388-400.	
<i>[Signature]</i>	117	Wells, "Application of the positioner appliance in orthodontic treatment" Am. J. Orthodont. (1970) 58:351-366.	

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	1-11-04
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Examiner Signature	Todd E. Manahan Primary Examiner		Date Considered	1-11-04	

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			Filing Date	July 31, 2003	
			First Named Inventor	PAVLOVSKAIA, ELENA	
			Art Unit	3732	
Examiner Name	Unassigned				
Sheet	2	of	10	Attorney Docket Number	018563-002920US

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Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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	CV	EP	376,873	A3	07-04-1990	Shafir		<input type="checkbox"/>
	CW	EP	400,848	B1	06-17-1992	Andersson et al.		<input type="checkbox"/>
	CX	EP	541,600	A1	06-12-1998	Andersson et al.		<input type="checkbox"/>

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	1-11-05
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				Art Unit	3732
Examiner Name	Unassigned				
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	CZ	EP	774,933	B1	06-28-1997	Oden et al.		<input type="checkbox"/>
	DA	FR	2,052,250	A1	03-20-1991	Jourda		<input type="checkbox"/>
	DB	FR	2,369,828	A1	06-02-1978	Suyehiro		<input type="checkbox"/>
	DC	WO	90/00,542	A1	08-09-1990	Lemercier		<input type="checkbox"/>
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	DE	WO	94/10,995	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
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	DG	WO	98/58,606	A1	12-30-1998	Chishty et al.		<input type="checkbox"/>

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	1-11-04
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NON PATENT LITERATURE DOCUMENTS			
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	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
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Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	1-11-04
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	EA	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Parts 1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.	
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	EC	CHACONAS et al., "The DigGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.	
	ED	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.	
	EE	CHIAPPONE, "Constructing the gnathologic setup and positioner" <i>J. Clin. Orthod.</i> , 14:121-133, 1980.	
	EF	COTTINGHAM, "Gnathologic clear plastic positioner" <i>Am. J. Orthod.</i> , 55:23-31, 1969.	
	EG	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operator, <i>Canadian Dental Journal</i> , vol. 54(9), (1988), pp. 661-666.	
	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	EI	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.	
	EJ	CURETON, "Correcting malaligned mandibular incisors with removable retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
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	EM	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" <i>DSC Production AG</i> , Jan. 1992, pp. 1-7.	

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	1-11-05
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			Examiner Name	Unassigned	
Sheet	6	of	10	Attorney Docket Number	018563-002920US

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	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.		
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.		
	EP	DenTrac Corporation, Dentrac document, pp. 4-13.		
	EQ	DURET et al., "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.		
	ER	DURET et al., "CAD/CAM Imaging in Dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.		
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	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.		
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.		
	EZ	GIM-ALLDENT Deutschland, "Das DUK System: Die Technik" 4 pages total.		
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	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.		
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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.	
	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," <i>AAOMS</i> 1999, p. 96.	
	FF	Inside the ADA, <i>Journal Of The American Dental Assoc.</i> , Vol. 118 (March 1989) 9 pages total.	
	FG	JCO Interviews, "Craig Andreiko, DDS, MS on the Elan and Orthos Systems", JCO, (Aug. 1994), pp. 459-468.	
	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 819-831.	
	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJO-DO</i> , (Apr. 1983), pp. 478-479.	
	FJ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," <i>British Journal of Orthodontics</i> , Vol. 16 (1989), pp. 85-93.	
	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber," <i>J. Nihon University School of Dentistry</i> , 26(4):11-29, 1984.	
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	FM	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.	
	FN	KESLING, "Coordinating the predetermined pattern and tooth positioner with conventional treatment" <i>Am. J. Orthod. Oral Surg.</i> , 32:285-293, 1946.	
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	FP	KLEEMANN et al., "The speed positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.	
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	FR	LAURENDEAU et al., "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," <i>IEEE Transactions on Medical Imaging</i> , Vol. 10, No. 3 (Sept. 1991), pp. 453-461.	
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				Application Number	10/633,015
				Filing Date	July 31, 2003
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
				Examiner Name	Unassigned
Sheet	8	of	10	Attorney Docket Number	018563-002920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	FT	MCNAMARA et al., <i>Orthodontic and Orthopedic Treatment in the Mixed Dentition</i> , Needham Press, January 1993. pp.347-353.	
	FU	MCNAMARA et al., "Invisible Retainers", <i>J. Clinical Orthodontics</i> , (August 1985) pp. 570-578.	
	FV	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339 <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 639.	
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	GE	Procera Research Projects, <i>PROCERA Research Projects 1993 — Abstract Collection</i> , 1993, pp. 3-28.	
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	GG	REKOW, "CAD/CAM In Dentistry: A Historical Perspective and View of the Future," <i>Journal</i> , Vol. 58 No. 4, (April 1992), pp. 283, 287-288.	
	GH	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>The Journal of Prosthetic Dentistry</i> , Vol. 58, No. 4 (Oct. 1987), pp. 512-516.	
	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.	

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	GJ	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.		
	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , pp. 53-54.		
	GL	RICHMOND, "Recording the dental cast in three dimensions," <i>Am. J. Orthod. Dentofac. Orthop.</i> , Vol. 92, No. 3, (Sept. 1987), pp.199-206.		
	GM	RUDGE, "Dental arch analysis: arch form, A review of the literature," <i>European Journal of Orthodontics</i> , Vol. 3, No. 4 (1981), pp.279-284.		
	GN	SAKUDA et al., "Integrated information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.		
	GO	SCHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.		
	GP	SEGU et al., "Computer-aided Cephalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983		
	GQ	SHILLDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 53:596-599, 1971		
	GR	Siemens, "CEREC - Computer-Reconstruction, "High Tech in der Zahnmedizin, 14 page total.		
	GS	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.		
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.		
	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.		
	GV	U.S. Department of Commerce, National Technical Information Service, "Holodontology: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.		
	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.		
	GX	VAN DER LINDEN et al., Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, p. 1101.		
	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.		

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	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.		
	HA	VARADY et al., "Reverse Engineering of Geometric Models - An Introduction," May 13, 1996, pp. 1-28.		
	HB	WARUNEK et al., "Clinical use of silicone elastomer appliances" <i>JCO</i> , MH (10):694-700, 1989.		
	HC	WARUNEK et al., "Physical and mechanical properties of elastomers in orthodontic positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 95:386-400, 1989.		
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	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan./March 1987, pp. 2-5.		
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